



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

BRASCH *et al.*

Appl. No. 09/695,065

Filed: October 25, 2000

For: **Methods of Manipulating and  
Sequencing Nucleic Acid  
Molecules Using Transposition  
and Recombination**

Confirmation No. 1682

Art Unit: 1634

Examiner: Lu, F.

Atty. Docket:  
0942.5000001/RWE/BJD/JKM

**Fourth Supplemental Information Disclosure Statement**

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The numbering on this Fourth Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' Third Supplemental Information Disclosure Statement filed on July 24, 2003, in connection with the above-captioned application. A copy of each document is also provided.

The Examiner's attention is directed to the following co-pending U.S. Patent Applications: 09/498,074, filed February 4, 2000; 09/648,790, filed August 28, 2000; 09/984,239, filed October 29, 2001; 10/005,876, filed December 7, 2001; 10/058,292, filed January 30, 2002; 10/300,892, filed November 21, 2002; 10/396,696, filed March 26, 2003; 10/454,793, filed June 5, 2003; and 10/640,422, filed August 14, 2003, which concern related technical subject matter. The identification of these U.S. Patent Applications is not

to be construed as a waiver of secrecy as to those applications now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited applications and the art cited therein during examination.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered. This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist.

This Information Disclosure Statement is being filed before the mailing of a first Office Action on the merits after the filing of a request for continued examination under 37 C.F.R. §1.114. No statement or fee is required.

Consideration of the cited documents and making the same of record in the prosecution of the above-identified application is respectfully requested. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

A handwritten signature in black ink, appearing to read "Brian J. Del Buono", with a stylized flourish at the end.

Brian J. Del Buono  
Attorney for Applicants  
Registration No. 42,473

Date: October 10, 2003

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1634

## FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA8						
	AB8	2002/0094574-A1	07/18/2002	Hartley <i>et al.</i>			05/16/2001
	AC8	2002/0172997-A1	11/21/2002	Hartley <i>et al.</i>			07/19/2001
	AD8	2002/0192819-A1	12/19/2002	Hartley <i>et al.</i>			07/19/2001
	AE8	2003/0064515-A1	04/03/2003	Hartley <i>et al.</i>			01/30/2002
	AF8	2003/0068799-A1	04/10/2003	Hartley <i>et al.</i>			05/06/2002
	AG8	2003/0077804-A1	04/24/2003	Byrd <i>et al.</i>			04/19/2002
	AH8	2003/0100110-A1	05/29/2003	Hartley <i>et al.</i>			11/02/1999
	AI8	2003/0124555-A1	07/03/2003	Brasch <i>et al.</i>			05/21/2002
	AJ8	2003/0157662-A1	08/21/2003	Gerard <i>et al.</i>			11/13/2002
	AK8	2003/0157716-A1	08/21/2003	Hartley <i>et al.</i>			11/02/2001

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL9						Yes No
	AM9	WO 96/40722	12/19/1996	WIPO			Yes No
	AN9						Yes No
	AO9						Yes No
	AP9						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>110</u>	
	AS	<u>110</u>	Cormack, B., "Directed Mutagenesis Using the Polymerase Chain Reaction," in <i>Current Protocols in Molecular Biology</i> , Ausubel, F.M., <i>et al.</i> , eds., John Wiley & Sons, Inc., New York, NY, pp. 8.5.1-8.5.10 (1997).
	AT	<u>110</u>	Feinbaum, R., "Vectors Derived from Plasmids," in <i>Current Protocols in Molecular Biology</i> , Ausubel, F. M., <i>et al.</i> , eds., John Wiley & Sons, Inc., New York, NY, pp.1.5.1-1.5.17 (1998).

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	AA9	6,066,778	05/23/2000	Ginsburg <i>et al.</i>			11/06/1996
	AB9						
	AC9						
	AD9						
	AE9						
	AF9						
	AG9						
	AH9						
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>111</u>	Johnson, R.C., <i>et al.</i> , "Isolation of the gene encoding the Hin recombinational enhancer binding protein," <i>Proc. Nat'l. Acad. Sci. USA</i> 85:3484-3488, National Academy of Sciences (1988).
	AS	<u>111</u>	Koch, C., <i>et al.</i> , "Escherichia coli host factor for site-specific DNA inversion: Cloning and characterization of the <i>fis</i> gene," <i>Proc. Nat'l. Acad. Sci. USA</i> 85: 4237-4241, National Academy of Sciences (1988).
	AT	<u>111</u>	Murayama, N., <i>et al.</i> , "Evidence for Involvement of <i>Escherichia coli</i> Genes <i>pmbA</i> , <i>csrA</i> and a Previously Unrecognized Gene <i>tldD</i> , in the Control of DNA Gyrase by <i>letD</i> ( <i>ccdB</i> ) of Sex Factor F," <i>J. Mol. Biol.</i> 256:483-502, Academic Press Limited (1996).

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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>112</u>	Osuna, R., <i>et al.</i> , "Identification of two functional regions in Fis: the N-terminus is required to promote Hin-mediated DNA inversion but not $\lambda$ excision," <i>The EMBO Journal</i> 10: 1593-1603, Oxford University Press (1991).
	AS	<u>112</u>	Sambrook, J., <i>et al.</i> , <i>Molecular Cloning: A Laboratory Manual</i> , 2nd ed., Cold Spring Harbor Laboratory Press, New York, NY, pp. 16.6-16.8, (1989).
	AT	<u>112</u>	Stryer, L., "The DNA Template Contains Stop Signals for transcription," in <i>Biochemistry</i> , 2nd ed., W.H. Freeman and Co., New York, NY, p. 610 (1981).

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>113</u>	Pending U.S. Non-Provisional Patent Application No. 09/498,074, filed February 4, 2000.
	AS	<u>113</u>	Pending U.S. Non-Provisional Patent Application No. 09/648,790, filed August 28, 2000.
	AT	<u>113</u>	Pending U.S. Non-Provisional Patent Application No. 09/984,239, filed October 29, 2001.

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	AR	<u>114</u>	Pending U.S. Non-Provisional Patent Application No. 10/005,876, filed December 7, 2001.
	AS	<u>114</u>	Pending U.S. Non-Provisional Patent Application No. 10/058,292, filed January 30, 2002.
	AT	<u>114</u>	Pending U.S. Non-Provisional Patent Application No. 10/300,892, filed November 21, 2002.

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	AR	<u>115</u>	Pending U.S. Non-Provisional Patent Application No. 10/396,696, filed March 26, 2003
	AS	<u>115</u>	Pending U.S. Non-Provisional Patent Application No. 10/454,793, filed June 5, 2003.
	AT	<u>115</u>	Pending U.S. Non-Provisional Patent Application No. 10/640,422, filed August 14, 2003.

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